

**"A mounting arrangement for high-frequency electro-optical components"**

ABSTRACT

5       An auxiliary component such as a bias inductance  
      (6) associated with a laser source (2) is mounted  
      generally "upright", that is with its major dimension  
      substantially orthogonal to the general plane of the  
      submount (S) supporting both the laser (2) and the  
10   auxiliary component (6). The inductor (6) is preferably  
      mounted at a location displaced laterally with respect  
      to the lasing direction (X) of the laser source. The  
      arrangement preferably includes a submount (S) with a  
      recess (13) and at least part of the laser driver is  
15   arranged in the recess so that the driver (3) has an  
      end surface extending from the recess substantially  
      flush with the pad (12) for mounting the laser source.  
      The arrangement minimises surface occupation as well as  
      RF and EMI parasitic effects related to wirebonding.  
20       (Figure 2)